Request to Archive
With The National Centers for Environmental Information
For NEXRAD Level I Data Archive
Provided by NWS/ROC

2014-11-07

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Charles Parish
NWS/ROC
System Engineer
405-573-3388
charles.r.parish@noaa.gov

2. Name the organization or group responsible for creating the dataset.

DOC/NOAA/NWS/ROC > National Weather Service, Radar Operations Center, 1313 Halley Circle, Norman, OK 73069

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

NEXRAD Level I raw radar data. We are only archiving Level 1 data that has been recorded and is used for algorithm development and verification by our organization and others with whom we have a working relationship (see question 7). When requested and arrangements can be made, Level 1 data is collected at specified radars for a specified time frame.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2010
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

Does not apply

6. Approximate date when the dataset was or will be released to the public:

2015-09

7. Who are the expected users of the archived data? How will the archived data be used?

Primarily MIT, Lincoln Laboratories, the National Severe Storms Laboratory (NSSL), and the National Center for Atmospheric Research (NCAR). Other potential users would be commercial and educational weather radar researchers.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

No

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

This data is the raw data that is used to produce the Level 2 data currently archived at NCDC.

10. List the input datasets and ancillary information used to produce the data.

There are no input data or ancillary information. This is raw data pulled from the receiver and recorded.

11. List web pages and other links that provide information on the data.

No webpages are available at this time. If NCDC agrees to archive the data, documentation will be provided.

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. There is no documentation available at this time.

13. Indicate the data file format(s).

1. Sigmet TS Archive Binary

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

XXXX_RVP.YYYYMMDD.HHMMSS.XXX.vcpXXX_XX.H+V.XXX
Where:
XXXX: Radar Site Code
YYYYMMDD.HHMMSS.XXX: Year, Month, Day, Hour, Minute, Second, Millisecond
vcpXXX_XX: VCP Type and cut number
H+V.XXX: Signifies the dataset is from a Dual-Pol radar

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

We plan to provide a written description of each dataset. In addition, the corresponding Level 2 data can be downloaded to view the meteorological features in the set.

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume:	18TB
Number of Data Files:	212263

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location:	Radar Operation Center, Norman, OK
System Name:	NOAA8877ROCLAN
System Owner:	Mike Miller

Additional Information: This information needs to be determined with NCDC due to the significant volume of the datasets

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. Physical Media Delivery

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

Constraint Type	Description
Access	Some experimental data will have access restrictions

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

The rationale for archiving this data is two-fold: To fulfill the off-site data archival requirements, and meet the spirit and intent of the NAO 212-15 Management of Environmental Data and Information. If this data is lost due to a catastrophic event, we risk losing all of our algorithm verification data.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

To comply with the NOAA Environmental Data Management Plan to record hydrometeorological data for archival storage, data access, and dissemination. No coordination has been made with a data center.

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2015-09-01

Accessible by: 2015-10-01

30. Add any other pertinent information for this request.

None